

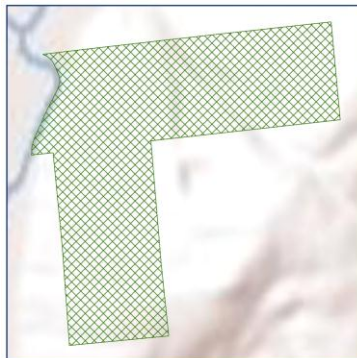


Region 4 Inventory and Monitoring Network

Mobile Acoustical Bat Monitoring Annual Summary Report

2012

FERN CAVE NATIONAL WILDLIFE REFUGE



The Region 4 Inventory and Monitoring Network coordinated acoustical bat monitoring on 39 National Wildlife Refuges and 3 Ecological Services field offices in Regions 2, 3, and 4 in 2012. Surveys will establish baseline inventories of bats at each station and contribute to a landscape-level understanding of bat population trends and habitat associations. Bat call data were collected using Anabat SD2 detectors along 8-30 mile transects following the procedures outlined in the Mobile Bat Acoustical Survey Protocol (USFWS 2012).

This report summarizes bat calls collected along transects at your station in 2012. Calls were classified using EchoClass (v1.1) software, but classification of calls to species is not reported at this time due to ongoing software assessment and validation. Calls were geo-referenced and spatially projected for each survey period to identify relative bat use along transects. We will provide a revised annual summary report, transect shapefiles, and spatially referenced data output files once robust classifications to species are available. For surveys in which GPS data were not collected, a summary of the calls is presented without spatial reference.

All submitted call data and survey metadata have been archived and are available on the Mobile Acoustical Bat Monitoring SharePoint site (<https://fishnet.fws.doi.net/regions/4/nwrs/IM/bats>). Bat call files, GPS data, and survey metadata sheets were reviewed for quality assurance prior to generation of this report. Some submitted data were necessarily excluded due to identified errors in collection processes. All acoustical bat data will be summarized in a comprehensive project annual report following station-level reports.

FERN CAVE NATIONAL WILDLIFE REFUGE

Route Name: FecNWR

Survey Date: 6/28/2012

Survey route completed? ☒

Number of bat calls recorded: 348

GPS data collected? ☐

Total length of transect (miles): 0

GPS Data Not Available

Observer 1: William	Gates
Observer 2: William	Jackson
Start Time: 8:34:00 PM	End Time: 10:08:00 PM
Start Temp: 84	End Temp: 84
Start Wind: 0	End Wind: 0
Start Cloud: 0	End Cloud: 0
Start Moon Visible? <input checked="" type="checkbox"/>	End Moon Visible? <input checked="" type="checkbox"/>
Moon Phase:	1/2

Survey Notes:

Collector notes: Briefly pulled over for traffic around 8:45. Card was used during training of volunteers and State Biologist around 6:12-6:26pm.; Note: GPS data was not collected for this transect, no survey route map provided.

FERN CAVE NATIONAL WILDLIFE REFUGE

Route Name: FecNWR

Survey Date: 7/16/2012

Survey route completed? ☐

Number of bat calls recorded:

GPS data collected? ☐

Total length of transect (miles): 11

GPS Data Not Available

Observer 1: David

Caudle

Observer 2:

Start Time: 8:27:00 PM

End Time: 9:02:00 PM

Start Temp: 79

End Temp:

Start Wind: 0

End Wind: 0

Start Cloud: 90

End Cloud:

Start Moon Visible? ☐

End Moon Visible? ☐

Moon Phase:

Survey Notes:

QA/QC notes: Not Completed. Moon phase not indicated. GPS use not indicated. Route was measured on Google Earth for a total distance of 11 miles completed.; Bat data was not submitted.

FERN CAVE NATIONAL WILDLIFE REFUGE

Route Name: FecNWR

Survey Date: 7/17/2012

Survey route completed? ☒

Number of bat calls recorded:

GPS data collected? ☒

Total length of transect (miles): 0

GPS Data Not Available

Observer 1: David

Caudle

Observer 2:

Start Time: 8:27:00 PM

End Time: 9:57:00 PM

Start Temp: 82

End Temp: 78

Start Wind: 0

End Wind: 0

Start Cloud: 50

End Cloud: 30

Start Moon Visible? ☐

End Moon Visible? ☐

Moon Phase:

Survey Notes:

Collector notes: Moon phase not indicated. Slight detour was taken due to closed road. Stayed on U.S. 79 through Skyline to Co. Rd. 17; Bat data was not submitted.

FERN CAVE NATIONAL WILDLIFE REFUGE

Route Name: FecNWR

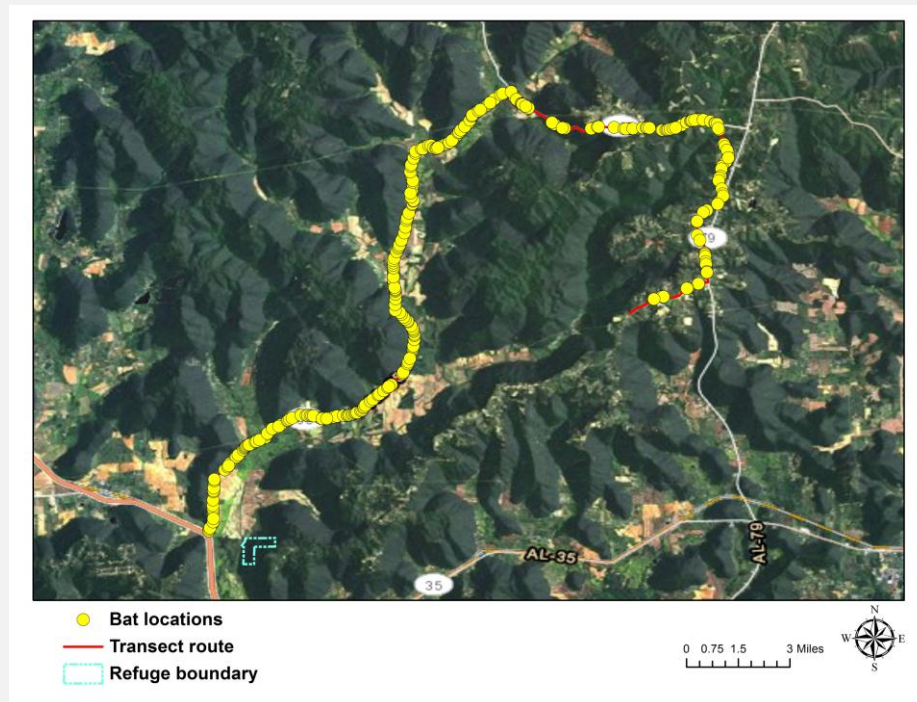
Survey Date: 7/19/2012

Survey route completed? ☒

Number of bat calls recorded: 377

GPS data collected? ☒

Total length of transect (miles): 30.26



Observer 1: David

Caudle

Observer 2:

Start Time: 8:25:00 PM

End Time: 9:56:00 PM

Start Temp: 80

End Temp: 80

Start Wind: 0

End Wind: 1

Start Cloud: 50

End Cloud: 50

Start Moon Visible? ☐

End Moon Visible? ☐

Moon Phase:

Survey Notes:

QA/QC notes: Moon phase not indicated. QA/QC of survey route data revealed no errors.